

THE INDIAN JOURNAL OF AGRICULTURAL SCIENCES

Previous issue : Vol 94, no. 11, pp 1153–1276

Vol 94, no. 12

December 2024

CONTENTS

Research Articles

Evaluation and molecular characterization of 3K rice (*Oryza sativa*) germplasm subset for blast resistance Dileep Kumar G D, Abdul Fiyaz R, Kasarla 1279
Chaithanya, Sahithi More, Shivani D, Srinivas Prasad
M and Sundaram R M

Evolutionary conservation of salinity responsive miRNAs from Indian wheat (*Triticum aestivum*) landrace, Kharchia Local Mahendra C, Kumar Nupur Hrishikeshan, Ahmed 1285
Mohammed Ismail, Pradeep Kumar Jain, Kishor
Gaikwad and Kanika Kumar

Influence of rain and wind dynamics on lodging of rice (*Oryza sativa*) varieties under rainfed agro-ecology Adikant Pradhan, A Dixit, A Sonkar and L Talukdar 1293

Challenges and the prospects of wheat (*Triticum aestivum*) improvement for limited irrigation in diverse production environments Devinder Mohan, Hanif Khan, Rajender Singh 1299
Chhokar, Ratan Tiwari, Arun Gupta, Ankita Jha,
Randhir Singh and Gyanendra Singh

Biostimulants based nutrient management on growth and yield of spring maize (*Zea mays*) under legume based cropping sequence B R Praveen, Magan Singh, R T Chethan Babu, 1305
Sanjeev Kumar, Ruxanabi Naragund, K S Sachin,
Prasanna S Pyati, Rakesh Kumar and Kashinath
Gurusiddappa Teli

Optimization and characterization of quercetin to enhance seedling vigour in greengram (*Vigna radiata*) under abiotic stress conditions Pavithra M, V Manonmani, K Malarkodi, D Uma 1311
and P S Kavitha

Effect of foliar nutrition on productivity and profitability of mungbean (*Vigna radiata*) in western Rajasthan Moti Lal Mehriya, Bheru Lal Kumhar, Devendra 1317
Singh, Surendra Kumar, Anil Kumar Verma and Sarita

Growth, yield and physiological activity of differently drip-irrigated vegetable cowpea (*Vigna unguiculata*) Kumari Lata, P K Yadav, H Ram, Priyanka Kumawat 1322
and Manju Verma

Morphological screening of early segregating generations of brinjal (*Solanum melongena*) for resistance against brinjal shoot and fruit borer Ankit Kumar Upadhyay, Jiji Joseph, Asish I 1328
Edakkalathur, Berin Pathrose and Beena C

Identification and characterization of thorny and high temperature tolerant brinjal (*Solanum melongena*) genotype for hot arid environment A K Verma, D K Samadia, Hanuman Ram, Chet 1334
Ram and P Kumar

Exploitation of heterosis, combining ability and gene action potential for improvement in okra (*Abelmoschus esculentus*) Rahul Pathania, Devinder Kumar Mehta, Ramesh 1340
K Bhardwaj, Rajesh K Dogra, Khushwant Singh,
Abhishek Kaplex and Shifali Sharma

Effect of insect pollinators on quantitative yield parameters of okra (*Abelmoschus esculentus*) in mid-Himalayan region A R N S Subbanna, Amit Umesh Paschapur, 1349
Sunaullah Bhat, Ganesh Chaudhari, Rahul Dev,
Nirmal Kumar Hedau, K K Mishra and Lakshmi Kant

Exploration and evaluation of native bacterial antagonist against *Fusarium* wilt disease (*Fusarium oxysporum* f.sp. *cubense* Tropical Race 4) in banana (*Musa* spp.) Amaresh Hadimani, R Thangavelu, Kantharaju V, 1354
Amruta S Bhat, Dadapeer A Peerjade, Suhasini
Jalawadi and Mahantesha Naika B N

Trans-generational effects of spinetoram on biological traits of <i>Spodoptera frugiperda</i>	Aarthi Helen P, Nikhil Raj M and Mahapatro G K	1360
Intraspecific hybridization of <i>Pleurotus djamor</i> (Agaricomycetes) for developing short duration, high-yielding improved hybrid strain	R Sivadharshanapriya, N Revathy, K Manonmani, V Ramamoorthy, S Lakshmi Narayanan and P Chandramani	1366
Short Communications		
Genetic diversity analysis in radiation induced small grain mutants of rice (<i>Oryza sativa</i>)	P Arunachalam, C Vanniarajan, J Soufmanien, R Lalitha and S Palaniyappan	1373
Effects of pre-mix herbicide combinations on weed management in transplanted rice (<i>Oryza sativa</i>)	Nilutpal Saikia, Manoj Kumar Singh, Vijay Pooniya, Prabhu Govindasamy, Aakash, Dendukuri Udaya Lakshmi, Kadagonda Nithinkumar, Shreyas Bagrecha, S K Asraful Ali and Sunil Kumar Prajapati	1377
Drone-based foliar nutrient spray improves physiology, nutrient uptake and yield of greengram (<i>Vigna radiata</i>)	T Ramesh, K Dayana, S Rathika and S Pazhanivelan	1381
Evaluation of yield and aphid resistance of Indian mustard (<i>Brassica juncea</i>) accessions under acidic soil of Meghalaya	Tingnunniang, M James, Farzana Ahmad, Rashmi Yadav and Hossain Ali Mondal	1385
Studies on impact of different levels and frequencies of nitrogen fertigation on capsicum (<i>Capsicum annuum</i>) crop	Krishan Kanahiya, R K Jhorar, Sanjay Kumar, D S Bundela, Mukesh Kumar, Mukesh Kumar Mehla and Pavan Kumar Harode	1389
Content Index		1394
Author Index		1408
Referees		1415